

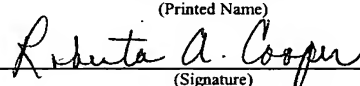
1-27-05

IFC

Atty. Dkt. No. 039153-5003 (G0167)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Xiang, Qi
Title: SILICON BUFFERED SHALLOW
TRENCH ISOLATION
Appl. No.: 10/755,746
Filing Date: 01/12/2004
Examiner: To be determined
Art Unit: 2813

CERTIFICATE OF EXPRESS MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
EV 459171363 US (Express Mail Label Number)	01/26/05 (Date of Deposit)
Roberta A. Cooper (Printed Name)	
 (Signature)	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.



TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1447.

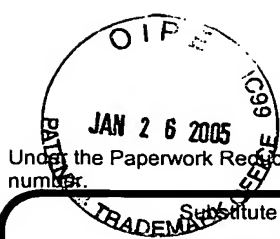
Respectfully submitted,

Date 1/26/2005

By 

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Marcus W. Sprow
Attorney for Applicant
Registration No. 48,580



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Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: January 26, 2005

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/755,746
Filing Date	01/12/2004
First Named Inventor	Xiang
Group Art Unit	2813
Examiner Name	To Be Determined
Attorney Docket Number	039153-5003 (G0167)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	2004/0089914	A1	Mouli et al.	05-13-2004	
	A2	2004/0061161	A1	Radens et al.	04-01-2004	
	A3	6,706,581	B1	Bou et al.	03-16-2004	
	A4	6,673,696	B1	Arasnia et al.	01-06-2004	
	A5	6,656,749	B1	Paton et al.	12-02-2003	
	A6	6,646,322	B2	Fitzgerald	11-11-2003	
	A7	6,613,646	B1	Sahota et al.	09-02-2003	
	A8	2003/0139051	A1	Andideh et al.	07-24-2003	
	A9	6,566,228		Beintner et al.	05/20/2003	
	A10	6,548,361	B1	En et al.	04-15-2003	
	A11	6,548,261	B1	Smith et al.	04-15-2003	
	A12	2003/0049893	A1	Currie et al.	03-13-2003	
	A13	6,524,931	B1	Perera	02-25-2003	
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	A15	6,468,853	B1	Balasubramanian et al	10-22-2002	
	A16	6,456,370		Ingles, Jr.	09/24/2002	
	A17	6,426,278	B1	Nowak et al.	07-30-2002	
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	A19	6,414,364		Lane et al.	07/02/2002	
	A20	6,399,512	B1	Blosse et al.	06-04-2002	
	A21	6,391,731	B1	Chong et al.	05-21-2002	
	A22	2002/0045312	A1	Zheng et al.	04-18-2002	
	A23	6,306,722	B1	Yang et al.	10-23-2001	
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	A25	6,214,696	B1	WU	04-10-2001	
	A26	6,207,531	B1	Pen-Liang	03-27-2001	
	A27	6,168,961	B1	Vaccari	01/02/2001	
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	A29	6,146,970		Witek et al.	11-14-2000	
	A30	6,136,664		Economikos et al.	10-24-2000	
	A31	6,107,143		Park et al.	08/22/2000	
	A32	6,087,705		Gardner et al.	07-11-2000	
	A33	6,080,618		Bergner et al.	06/27/2000	
	A34	6,080,637		Huang et al.	06-27-2000	
	A35	6,080,627		Fan et al.	06-27-2000	
	A36	6,074,930		Cho et al.	06/13/2000	
	A37	6,074,931		Chang et al.	06-13-2000	
	A38	6,037,238		Chang et al.	03-14-2000	
	A39	6,013,937		Beintner et al.	01/11/2000	
	A40	5,837,612		Ajuria et al.	11-17-1998	
	A41	5,793,090		Gardner et al.	08-11-1998	
	A42	5,719,085		Moon et al.	02-17-1998	

Examiner
Signature

Date
Considered

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 26, 2005 <i>(use as many sheets as necessary)</i>				Complete if Known	
Application Number				10/755,746	
Filing Date				01/12/2004	
First Named Inventor				Xiang	
Group Art Unit				2813	
Examiner Name				To Be Determined	
Attorney Docket Number				039153-5003 (G0167)	

U.S. PATENT DOCUMENTS

U.S. Patent Document					
	A43	5,700,712		Schwalke	12-23-1997
	A44	5,668,044		Ohno	09-16-1997
	A45	5,455,194		Vasquez et al.	10-03-1995
	A46	5,406,111		Sun	04/11/1995
	A47	5,266,813		Comfort et al.	11-30-1993
	A48	5,254,873		Poon et al.	10/19/1993

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A49	GB	2 254 731	A	Samsung Electronics Company Limited	10-14-1992		
	A50	EP	0 245 622	B1	International Business Machines Corporation	11-19-1987		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A51	Written Opinion of the International Searching Authority; International Application No. PCT/US2004/007464; International Filing Date 03-11-2004; 6 pgs.	
	A52	International Search Report; International Application No. PCT/US2004/007464; mailed 01/09/2004; 3 pgs.	
	A53	OHKUBO, Satoshi; TAMURA Yasuyuki; SUGINO, Rinji; NAKANISHI, Toshiro; SUGITA, Yoshihiro; AWAJI, Naoki and TAKASAKI, Kanetake; "High Quality Ultra-Thin (4nm) Gate Oxide by UV/O ₃ Surface Pre-Treatment of Native Oxide"; 1995 Symposium On VLSI Technology; Digest of Technical Papers; June 6-8, 1995; Kyoto, Japan; 3 pgs.	
	A54	Written Opinion of the International Searching Authority; International Application No. PCT/US2004/000982; International Filing Date 01-13-2004; 6 pgs.	
	A55	WOLF, Stanley, Ph.D. and TAUBER, Richard N., Ph.D.; "Silicon Processing For The VLSI Era"; Vol. 1: Process Technology; Lattice Press; 1986; pp. 57-58, 194	
	A56	GHANDHI, Sorab K. "VLSI Fabrication Principles"; John Wiley and Sons; 1983; pp. 422-423	

Examiner Signature	Date Considered
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Sheet	3	of	3
		Attorney Docket Number	039153-5003 (G0167)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A57	U.S. Appl. No. 10/389,456, Filed 3/14/03, entitled "Shallow Trench Isolation For Strained Silicon Processes" (37 pgs.)	
	A58	U.S. Appl. No. 10/341,848, Filed 1/14/03, entitled "Post Trench Fill Oxidation Process for Strained Silicon Processes" (17 pgs.); Amendment to Specification (1 pg.)	
	A59	U.S. Appl. No. 10/358,966, Filed 2/5/03, entitled "Shallow Trench Isolation Process For Strained Silicon Processes" (23 pgs.)	
	A60	U.S. Appl. No. 10/341,863, Filed 1/14/03, entitled "Shallow Trench Isolation for Strained Silicon Processes" (26 pgs.); Amendment to Specification (1 pg.)	
	A61	U.S. Appl. No. 10/620,194, Filed 7/15/03, entitled "Front Side Seal to Prevent Germanium Outgassing"; (21 pgs.); Amendment to Specification (1 pg.)	
	A62	VAN ZANT, Peter, "Microchip Fabrication", McGraw Hill, 1977, pages 31 and 39	
	A63	VOSSEN, John L. and KERN, Werner, "Thin Film Processes II"; Academic Press, 1991, page 333	

Examiner Signature		Date Considered	
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